



Esteban Héctor NINA TERAN

Chemical engineer
Petroleum engineer

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Languages

- Spanish: Native.
- French: B2 (DELFI 88/100).
- English: C1 (TOEIC 985/990).

Technical proficiencies

- Microsoft office
- Aspen HYSYS
- Aspen plus
- Gaussian
- MATLAB
- Python
- Techlog

Centers of interest

- Gym
- Swimming
- FL studio
- Barbecue
- Videogames and cars

Education

→ PhD candidate (2025-Present)



IFP Energies Nouvelles, France.

"Coupling radical and catalytic polymer cracking: Unveiling mechanisms towards better recyclability".

→ Master's degree in catalysis and Physical Chemistry (2023-2025)

Claude Bernard Lyon 1 University, Lyon, France.



- First year final project: *"Modeling of spatial confinement by molecular modeling".*

Institut des Sciences Analytiques (ISA), Lyon, France.

Study of three cycloaddition reactions within C180 and C240 fullerene cages. Performed energetic, orbital and geometric analyses of these reactions with the help of the Gaussian software.

- Second year final project: *"Cycling the hydrogenation of cycloalkenes assisted by an electrical field and the hydrogenation of aromatics in a single reactor".*



IRCELYON, Lyon, France.

Study of the influence of the anatase/rutile ratio on Pt/TiO₂ catalysts on the hydrogenation of toluene as an LOHC, performed in the gas phase in a packed bed reactor. Gained knowledge on DRX, N₂ physisorption, ICP-OES, ADF-STEM, H₂ chemisorption, FTIR and XRF analyses performed on the fresh catalysts.

→ Bachelor's degree in Chemical Engineering (2018-2022).

San Francisco Xavier de Chuquisaca University, Sucre, Bolivia.

- Final Project: *"Simulation and comparison of kinetic models in methanol production".*

Simulation of a packed bed reactor in MATLAB and Aspen Plus to compare commonly used kinetic models for methanol production.

→ Bachelor's degree in Petroleum Engineering (2014-2022).

San Francisco Xavier de Chuquisaca University, Sucre, Bolivia.

- Final project: *"Analysis of the impact of fracture closure on the Icla and Santa Rosa reservoirs of the Caigua field by integrating a geomechanical study for the re-evaluation of development projects of the field".*

Geomechanical analysis performed on several wells of the Caigua field by using Techlog and well log data to evaluate the impact of natural fracture closure on the productivity of the field.

Professional experiences and scholarships

- "Teaching assistant" scholarship winner after merit-based competitions in the subjects of Thermodynamics (2017-2020) and Physical chemistry (2016-2020), **San Francisco Xavier de Chuquisaca University, Sucre, Bolivia.**
- Internship in hydrocarbon production and control, **Governorship of the Chuquisaca department, Sucre, Bolivia (2019).**
- Spanish language teaching assistant in France, **Lycée Jean Vigo and Collège Marcel Aymard, Millau, France (2020 - 2021).**
- Kitchen assistant, **Le Barcandier bar, Lyon, France (2024)**
- Student monitor, **Bibliothèque des Sciences La Doua, Lyon, France (2024-2025).**